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New Hampshire Chapter of the American Institute of Architects

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New Hampshire
ARCHITECT
Official Publication-N.H. Chapter-A.I.A.

OL. 1 JANUARY, 1950 NO. 6

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Concord, N. H.

Photo by Durette Studio.

THE COVER PICTURE

This is a progress photograph showing exterior work being done on one of the 12 units of the Manchester Housing Project which is featured in this issue.

Although the construction has been completed and accepted by the Manchester Housing Authority, it is understood that dedication will not take place until Spring.

The General Contractor is Gilbane Building Company of Providence, R. I. Associate Architects are Carl E. Peterson, John D. Betley, and Koehler & Isaak; Chief Architects are Provost & Wright, Inc., all of Manchester.

A complete directory of designers, contractors and material suppliers appears elsewhere in this issue.

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THE PRESIDENT SPEAKS

This past year has seen an increased interest on the part of our members and those who are not yet within the Chapter. This should reveal a substantial increase in new membership.

Every member of the Chapter should be urging non-members to join—we have a salable article, at a bargain price, and any member encouraging another fellow to join the American Institute of Architects honestly knows that he is doing this person a real favor.

A great many of you know that the services performed by the Institute for you have been worth vastly more than the fee you pay as an individual. I do trust that you will take the responsibility of membership seriously. A concerted drive on the part of everyone of you is necessary.

We have been in the business too long to expect any gratitude for services well performed at a bargain rate—everyone can, however, prove that appreciation by earnest effort in continuing to make our Chapter an effective and intelligent medium toward advancing every phase of our services and public relations.

The boys are doing very well in getting their material to "Gene" Magenau, Chairman of Publicity and Public Relations for our NEW HAMPSHIRE ARCHITECT. Here is a place you all can be additionally valuable by sending in your list of manufacturers, tradesmen, and clients who would enjoy receiving this splendid little journal.

Write our membership committee chairman, "Stuart" Lyford for any information on that score.

As a final word, I hope that members will continue their efforts to add to the membership of the Chapter.

The Group Professional Liability Insurance Plan

The general protective insurance plan, set up by the General Accident Assurance Corporation is to be discontinued by them. Apparently the actuarial data on which the Plan was based was found to be in error.

Other American and foreign insurance companies have been approached. Most of them are not interested in insuring architects against results of their own errors, mistakes, omiss and plain poor planning. Nibbles were n from two English companies,—at premiums proaching $2000 yearly!

Doctors can protect themselves by insur against suits for "malpractice." Appare human health and life is a less serious risk t that school house, or the new public librar

The G. A. A. C. have offered a policy prot ing the architect, at the same fee ($25), in c where legal liability has been proved for cidents" causing injury to persons or prope This type of insurance is being investiga and, will be reported on in A. I. A. Publicati

The A. I. A. is not going into the insur business.

Bureau of Public Wor Meets Approval

General approval was expressed for crea a Bureau of Public Works at a public hea at the State House on December 22. A committee of the State Reorganization C mission, headed by Rep. Herbert Hill, h the testimony. Two speakers representing Highway Users Conference and Petroleum dustries, Inc., opposed the new bureau grounds that highways are bound to suffe some of the Highway Department's efforts diverted to other purposes.

However, ten speakers testified in favor of proposal, including several state departn heads, although a number of questions w raised regarding administration and person Messrs. Tracy, Magenau and Witmer all sp in favor of such a bureau if organized al the lines outlined by Highway Commissio Merrill—that is, the Bureau would be a ser agency for all state departments; the divi of Structures and Architecture would be a "c man office" to do pre-planning, coordination, ministration and supervision.

Attempts were made to correct the Com sioner's apparent feeling that the archit were interested in the new Bureau because t would be jobs for them in it; our interest of course, in seeing that architectural wor performed by architects in private practice; as taxpayers, we believe that an architec the bureau would save the State a lot of mo provided he is properly qualified and has ficient authority, by setting up orderly pr dures, preventing mistakes in planning, coordinating the work of private archite engineers and contractors.

It was indicated that additional heari would be held in the future.

The Question of Institute Dues

Harold B. Willis, Regional Director, A. I. A.

'o judge from letters received by your Re-nal Director, the local A. I. A. Membership greatly interested in the question of dues. e letters also indicate a certain unfamiliarity h Institute finances,—a lack of knowledge red by the undersigned until quite recently. Iany seem to have forgotten that the A. I. A. s were raised to $50 by vote of the delegates he 1949 Convention, (the A. I. A. House of presentatives). The Board of Directors, e Senate), was authorized to reduce this re. The Board, at their recent meeting has uced these dues to $40. However the in-ase over $25 which has been unchanged since memory of living men, is to apply only members whose salaries or net incomes ex-d $5,000. Members whose incomes are less n $5,000 will continue to pay the classic $25. urprisingly enough, the Treasurer estimates t only 2,000 members will pay the higher e,—less than ¼ of the total membership. 'he dues situation is to be eased in other s. A new member will pay $5 his first year. dues will increase at the rate of $5 a year. vill take three years to increase from $25 to ,—eight years for a new member to attain maximum of $40.

'here has been a gratifying increase in In-ute membership, but that increase has not n sufficient to balance certain losses of in-e and added expenses.

'he March A. I. A. Bulletin printed some in-sting graphs which should be studied in nection with current A. I. A. financial prob-s. These indicate that in 1948 only 47.7 cent of the A. I. A. income came from dues. sale of documents accounted for 22 per cent ncome,—a source which is shrinking this r and which may continue to shrink an in-erminate amount with a decrease in con-ts awarded.

ncome from rent of the portion of the Octa-House property occupied by Government es has ceased,—a serious loss of income to Institute. The vacated Administration ding is being put into proper condition for use. The operating cost of this building be an added expense.

n the expenditure side of the picture the posed Budget for 1950 shows increases for:

1. An anticipated very large convention in Washington, D. C. in 1950.
2. A substantial increase in the general administration, necessitated by raising the salary list to somewhere near current Washington levels.
3. Increased costs in Printing and Publishing.
4. An increase in field of Education and Research, to the worthwhile end of enlarging the scope and value of Institute service to the Membership and to the Profession in general.

The Proposed Budget for 1950 shows decreases in the Recruiting Department, Committees under General Administration, and Public and Professional Relations Department. For reasons of economy The Board has turned down many beguiling but expensive proposals,—such as professional public relations counsel, publicity on architectural subjects on a country-wide scale, special research problems, etc.

When one compares the new Institute schedule of dues with comparable national professional business and trade associations, it is found that the Architects have not done too badly. The number and complication of Institute endeavors have increased enormously, but, in a generation which has seen the dollar shrink to ¼ of its value, A. I. A. dues continue stabilized, with the exception of a 60 per cent increase for the more prosperous quarter of the Corporate Membership.

To your Regional Director, this appears a commendable achievement by past and present Octagon staff and Institute officers.

Parish Center at Lakeport Under Construction

The Roux Brothers Construction Company of Laconia began construction of a $25,000 parish center for Our Lady of the Lake church in Lakeport on December 8. The new center will be located on Washington street, where it will replace the demolished barn of the parish house, almost directly behind the church.

The building will be 80 x 45 feet, and of steel frame and cement block construction with steel sash windows. A 62 x 35 foot gymnasium or basketball court, with a seating capacity of about 200 people around the playing area, is included in the plans as well as a cloak room, two sets of dressing rooms, showers and lockers, a lobby, storage equipment rooms and a boiler room. Norman P. Randlett of Laconia is the architect.

Rock Rimmon Housing Project Completed Ahead of Schedule

Seventeen Buildings of 12 Apartments each, two-thirds occupied by tenants . . . . Project accepted by Manchester Housing Authority.

The much debated two million five hundred thousand dollar Housing Project, N. H.-1, at Manchester, N. H., becomes a reality with the completion of the contract way ahead of schedule. Families are rapidly moving into their new apartments with two-thirds of the apartments now occupied by tenants.

The vast area covered by this project comprises 17 buildings of 12 apartments each, with the exception of one building having 10 apartments, the remainder of the building taken up by the Administrative offices and service areas. In all, there are 90 apartments of 3 bedrooms, 90 apartments of 2 bedrooms, and 20 apartments of singlebedrooms. Besides the bedrooms, each apartment has a living room, bath room, and a combination kitchen and dining room. Furnished in the kitchens are ranges, refrigerators, cabinets, combination sinks and service trays, and wall shelving. Each apartment has a front and rear stair entrance and access to storage area in the basement. An unusual feature is the ramp to basement from outdoor ground level for rolling perambulators and bicycles to storage area. In addition, apartments are furnished all utilities except electric lighting which is paid for by the tenants. For those with cars, adequate off-street parking is available for each apartment. Drying areas and garbage disposal areas are at the rear of each building. All buildings are three stories of fireproof, rodent-proof, vermin-proof and low maintenance type of construction.

To give the project a pleasing appearanc touring visitors, building were staggered such a way that few buildings are seen at time when driving through the project. other reason for this staggering of buildi was to give maximum sunlight in all apartme and a maximum of privacy from one build to the other. Although the exterior of all bu ings is similar, monotony was broken by al nating red and gray brick at piers and sp drels between windows and by furnishing v ous types of porch entrances with red, blue green wood trimmings.

Very few projects in this section of the co try have the recreational facilities afforded this project. It includes tennis courts, ar baseball diamond with seating capacity several hundreds, a play-ground area with summer recreational facilities within almo stones' throw, and hills to the rear for wi sports activities. Public transportation to from the project is within easy access by n bus lines leading off the project streets. A work of existing streets will give resid ready access to nearby churches and the sh ping district.

Although this project was started lat November of 1948, it was completed in re time due to its unusual type of construc which is the first of its kind used in this cou

(Continued on page 8)

Architect's Drawing of Rock Rimmon Housing Project.

F. L. GALLAGHER

ASSOCIATES

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We were selected as **HEATING and SANITARY ENGINEERS** on the Rock Rimmon Housing Project described in this issue of the N. H. Architect.

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Photo shows Pre-Cast concr
Panel System of Multiple St
Dwelling Unit.

(Continued from page 6)

on public housing projects. Its construction is simple in that it is built of reinforced concrete panels poured on the site, raised and set into place to form bearing and non-bearing walls. Steel door bucks are slid into the door openings and grouted into place then reinforced concrete floor slab is poured to interlock into the panels. All electric conduits from the panel and conduits in the floor slab are joined gether before pouring the slab. After remo of the floor slab forms, this structure beco monolithic and ready for painting, floor fin ing, plumbing and electric fixture setting, almost ready for occupancy. Aluminum w dows are set into place and bolted to outs panels ready to receive adjoining brick ven

(Continued on next page)

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o trades are held up by other trades for their espective work and outside brick veneering can roceed without holding up the interior finish-g. Large pipe spaces between apartments are adily accessible from basements for main-nance of plumbing, heating, electric and tele-hone without entering apartments. It is a ype of construction fast being adopted roughout New England and central Atlantic ates. It has been proven by competitive bid-ng as the most economical type of class A onstruction for housing projects, dormi tories, nd similar types of buildings. All buildings re heated from three central heating plants rnishing oil fired hot water heat and domestic ot water piped through the buildings through nderground trenches.

Buildings are finished in harmonizing pastel olors throughout, with trim colors blending in ith the wall colors. Doors are finished in natural finish. Colors are used throughout e project in keeping with today's popular end, giving pleasant, bright and colorful ap-earances.

Ceilings are finished in a stippled plastic tex-re paint, giving a modern finish throughout

(Continued on page 10)

Heating Equipment

for the

Rock Rimmon Housing Project

furnished and installed by

McLEAN-COUSENS

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Linoleum - Koroseal

L. G. CHARTRAIN, Pres.

(Continued from page 9)

to all ceiling surfaces. This new finish has been used extensively in the South and West and was applied for the first time in this section of the country at the Manchester project.

DIRECTORY TO M. H. A. CONSTRUCTION PROJECT

General Contractor on the Project—Gilbane Building Company, Providence, R. I.

Chief Architects—Provost and Wright, Inc., Manchester.

Associate Architects—Carl E. Peterson, Manchester; John D. Betley, Manchester; Koehler & Isaak, Manchester.

Heating and Sanitary Engineer—Francis L. Gallagher, Manchester.

Electrical Engineer; *Associate Plumbing and Heating Engineer*—Artie Kimball, Boston, Mass.

Civil Engineer—George C. Benjamin, Manchester.

Sub-contractors and suppliers of materials used in the completion of the project were:

P. W. Donoghue Company, Boston, Mass., plumbing; McLean, Cousens & Barton, Boston,

(Continued on page 12)

ALL THE PLANTS

for the Rock Rimmon Housing Projec were raised in our own nursery, wher Winter temperatures sometimes reach 3 degrees below. These plants were installe by our men.

—o—

OUR ORGANIZATION

has always felt that the most importan step in raising a tree or shrub is locatin it in exactly the right spot on the ground of the purchaser, and for that reason w are pleased to consult and make recom mendations and plans for small or larg plantings without obligation.

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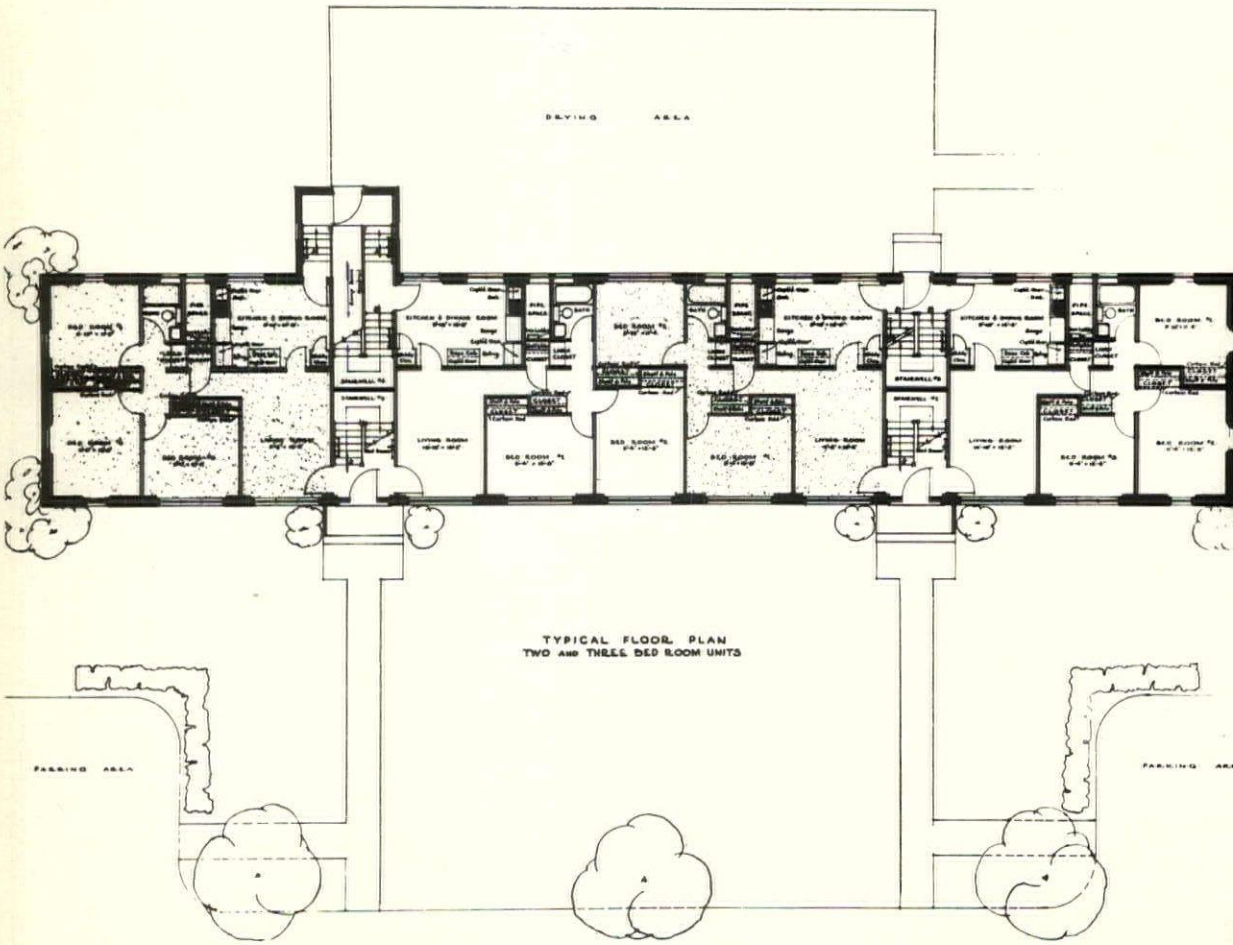

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and

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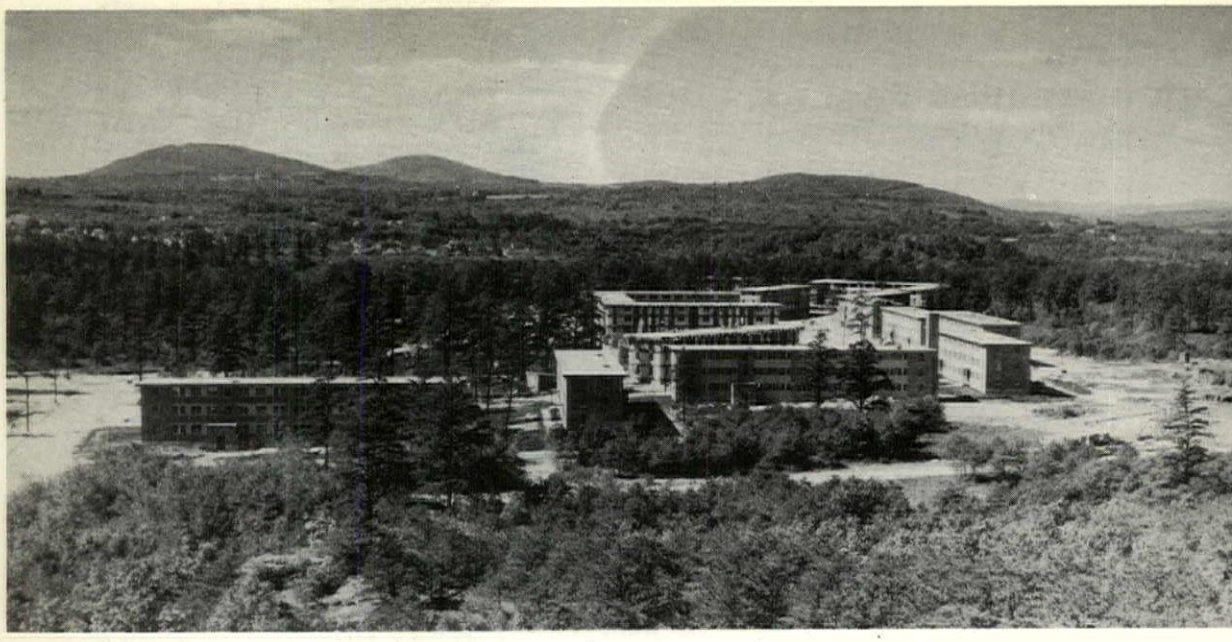

Photo by Durette Studio

View of Project nearing Completion.

(Continued from page 10)

Mass., heating; J. Livingston & Company, Boston, Mass., electrical; Travers-Sandell, Inc., Cambridge, Mass., dampproofing and caulking; Dillaby Fireproofing Company, Cambrid Mass., insulation; California Stucco Produ of N. E. Inc., Cambridge, Mass., vermiculi

(Continued on next page)

Complete wiring and electrical work in connection with the new Rock Rimmon Housing Project at Manchester, N. H., was done by

J. LIVINGSTON & CO.

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79 Milk Street **Boston 9, Mass.**

R. R. HARTFORD, INC.

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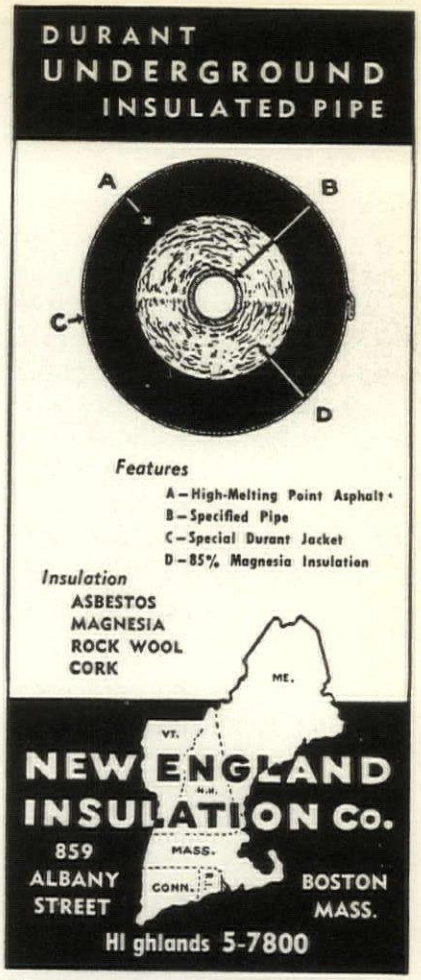

(Continued from page 12)

. L. Monroe & Son, Providence, R. I., bricks; ew England Lime Company, Boston, Mass., uick lime mortar; Quincy Ornamental Iron Vorks, Boston, Mass., tablet; P. W. Anastasi lastering Company, Boston, Mass., plastering; rown Shade & Screen Company, Boston, Mass., nades; New England Insulation Company, Bos-on, Mass., pipe covering; Sudbury Nurseries, nc., Maynard, Mass., landscaping; F. L. Gal-gher Associates, Manchester, heating & san-ary engineers; R. R. Hartford, Inc., Manches-er, excavating; M. J. Murphy & Sons, Inc., anchester, roofing; A. W. Therrien Company, anchester, sheet metal work; New England loor Company, Manchester, asphalt tile; Man-nester Hardware Supply Corporation, Man-nester, hardware; J. J. Moreau's, Manchester, uilding materials; Sundeen Lumber Company, anchester, lumber and building materials; Se-rity Fence Company, Manchester, fencing aterials; D. F. Shea Company, Nashua, paint-g; Indian Head Plate Glass Company, Nashua, azing; Steel Equipment Corp., Laconia, af-iated with The Aluminum Window Corp., arden City, N. Y., windows; The Manchester as Co., Manchester, supplied the refrigeration r the development.

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ARCHITEXTOPICS

By Eugene F. Magenau

Last month this column discussed professional ethics. Another problem as inevitable as ethics is that of taxation. Changing to this subject, it is not hard to believe the recent statement of Publisher James M. Langley of the Concord Monitor, that $10,000,000 of revenue is available to communities in the state without increasing taxes, merely by assessing all property consistently in accordance with existing law. If true, this is a terrific indictment against present assessment practices and assessors.

An intriguing discussion of property taxation as well as what looks like a solution to the whole problem, is contained in a little book called, "The Self-Supporting City," by Gilbert M. Tucker. This advances the theory that urban land as such has no value other than that created by the community; therefore the community and not the individual owner should benefit from increases in value, through the device of ground rent, or taxes. On the other hand, improvements on the land (such as buildings) are created by individuals who should therefore be entitled to any benefits resulting from their construction and use. Thus taxes on buildings are unjust besides being a penalty on enterprise, and the tax on buildings should be progressively lowered while that on land is correspondingly increased. Total revenue would remain the same, other things being equal; most taxpayers would save appreciably on taxes, their savings being more than offset by revenue from vacant lots; and since it would no longer be profitable to hold vacant land, speculation would cease and owners would have to improve their property in order to be able to pay the ground rent or tax. The whole building industry including modernization, slum clearance, housing **and** the architectural profession, would be tremendously stimulated because a man's property tax would be no greater after erecting his house or office building or store than it was before.

This system operates now in Denmark, and to a limited extent in some American citi Wherever tried, its benefits have been astou ing. The John C. Lincoln Foundation is c culariziing people with educational letters, b the inertia of citizens and the opposition change on the part of politicians and th appointees offer discouraging prospects of form. They refuse to see that property ta as now assessed are gradually but surely sque ing to death the goose that lays the golden eg Stranger still, they shut their eyes to the f that cities sacrifice every year to a few priv individuals the entire increment in value their land, given to it by none other than city itself! A most amazing paradox!

Interested persons may get on the mailing by addressing a request to Lincoln Foundati Inc., 2307-13th Avenue West, Bradenton, F

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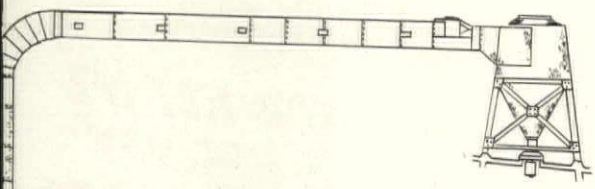

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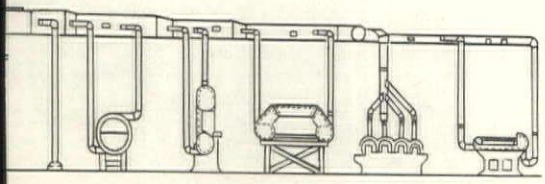

Facilities Control School Building Costs

THE EXTENT of the facilities to be provided is the controlling factor in the wide variance of costs of constructing schools in the United States.

Developed in a pilot survey by ENGINEERING NEWS-RECORD, this cost facility relationship is the basic reason why:

1. New elementary schools now being put under contract show costs per student served ranging between the extremes of $193 and $1,995. Stating it another way, costs for these schools ranged between $5.49 and $21.79 per sq. ft.

2. For Junior high schools, costs per student were between $565 and $2,044; or from $9.12 to $18.50 per sq. ft.

3. For high schools, cost per student were between $240 and $1,801; or $4.16 to $13.11 per sq. ft.

Cube costs, of course, also showed a similar wide range: From $0.42 to $1.245 for elementary schools: $0.53 to $0.97 for junior highs; $0.54 to $0.94 for high schools.

The ENR survey covered 29 elementary schools, 6 junior high schools, 7 high schools and 3 college buildings. The college buildings (a field house, gymnasium and electrical engineering building) showed these costs: $9.98 per sq. ft. for the field house and gymnasium and $19.37 for the engineering building (including aluminum and brick construction, elevators and utility tunnels) . On a cube basis, costs were $0.32 for the field house and gymnasium and $1.49 for the engineering building.

School construction costs are measured three ways: as (1) cost per student, (2) cost per square foot, and (3) cost per cubic foot in this study.

The 45 schools represented in this study are in 18 states and the District of Columbia. By and large the schools south of the Ohio River and west of theMississippi cost less than $1,000 per student and those north and cast more than $1,000. Federal schools in Tennessee and high-schools in Texas and Virginia are exceptions to the under $1,000 record. Two schools in Pennsylvania, one in Ohio and one in Massachusetts are exceptions to the over $1000 per student pattern for new schools in the Northeast. In addition to the new schools, the charts on next pages show where the additions, alterations and temporary structures are and what they cost per student.

The results of this survey are reprinted here by permission of Engineering News Record. Next month another helpful reprint will be presented: "Quality Check List—Key to School Cost Control."

SCHOOL CONSTRUCTION COSTS — ELEMENTARY SCHOOLS

Compiled by Engineering News-Record

Location	Date 1949	No. of Students	Cost: Unit Cost Per Student	Cost: Unit Cost Per Sq. Ft.	Cost: Unit Cost Per Cu. Ft.	Cost: Total Contract	Cost Distribution %: Found Supr. Str.	Cost Distribution %: Elec.	Cost Distribution %: Plumb.	Cost Distribution %: Heat	Building Dimensions: Stories	Building Dimensions: Main Bldg.	Building Dimensions: Wings
Riverton, Wyo.	Apr.	100	$508	$14.26	..	$50,820	91		9		2	54 x 33	none
Cleveland, Ohio	Jan.	130	1211	21.79	$1.09	157,420	70	3	5	22	1 & 2	77 x 55 (1)	50.5 x 27 (2 st)
Warren, Ohio	Mar.	180	1395	..	0.89	251,171	77	5	6	11	1	55 x 203	64 x 74
Waynesboro, Va.	Apr.	210	562	8.55	0.63	118,066	75	7	13		1	181¼ x 57½	11¼ x 42, 67¼ x 38, 24¼ x 1 12 1/3, 38 x 131, 38 x 1
Woodstock, Ill.	May	275	1120	11.73	0.84	307,940	76	4	10	10	1 & b	42 x 133	
S. San Francisco, Calif.	June	280	763	9.48	..	213,992	71.6	6.1	9	13.3	..	open plan, dimen diff. to show	
Longmont, Colo.	May	300	750	10.92	0.64	225,000	..	..	..	..	1	62 x 280	52 x 60
Longmont, Colo.	May	300	713	10.38	0.61	214,000	..	..	..	..	1	62 x 280	52 x 60
McKeesport, Pa.	Apr.	350	858	20.00	..	300,185	71	6	7	16	2 & 1	129 x 62 (2)	72 x 66 (1st)
Cleveland, Ohio 48	May	370	938	18.06	1.05	347,183	80	3	6	11	1	100 x 182	40 x 45 (1st)
Cicero, Ill.	Nov.	380	1995	17.86	..	758,000	81.8	3.7	4.6	9.9	2	55 x 115	25 x 96, 25 x 96, 38 x 65 (1st)
Troy, Ohio	Feb.	400	1174	12.14	0.75	469,513	79	6	5	10	2½	92 x 210	none
Torrance, Calif.	May	400	842	9.78	0.80	359,215	79	7	14		1	34 x 178	31 x 318, 31 x 237, shop 31 x 50
Muncie, Ind.	Mar.	410	1064	..	1.00	436,164	70	8	22		1 & 2	40 x 222	59 x 93 (1st)
Wilbraham, Mass.	Mar.	480	916	13.61	0.60	439,880	78	4	5	13	1 & b	89 x 110	58 x 116, 57 x 129
Elmira, N. Y.	June	500	1165	21.17	0.85	582,629	78	7.7	5.1	9.2	1 & 2	176 x 58 (2)	83 x 70, 46 x 30 (1st)
Neligh, Nebr.	May	500*	511	12.17	1.245	255,618	..	..	..		2	58 x 161	8 x 34, 34 x 34
San Carlos, Calif. 48	July	500	378	7.29	0.81	189,160	..	..	..	..	1	..	30 x 324, 30 x 324
Van Nuys, Calif.	June	505	346	8.02	0.64	174,897	78	7	12	3	..		
Oak Ridge, Tenn. 48	June	525	1639	14.19	..	860,698	75.5	7.9	7.1	9.5	1 & 2	59 x 100 (2)	31 x 337 (2) 42 x 120 (1) 302 x 73 (1)
E. Bridgewater, Mass.	May	540	760	11.31	0.75	410,446	77	4	8	11	2½	81 x 167	none
Oak Ridge, Tenn.	Feb.	550	737	10.15	..	405,304	73	9	18		1	71 x 108	36 x 29, 57 x 505, 24 x 9
Council Bluffs, Ia.	Apr.	600s	866s	12.48	0.64	519,799	79	4	7	17	2	238 x 58	90 x 78
Great Neck, L. I.	May	720	347	10.78	0.59	249,648	69	9		14	1	84 x 28 (ea)	152 x 24½, 152 x 24½, 96 x 5 corridors, tool rm. 28 x 28 (ea)
Washington, D. C.	Mar.	800	802	10.59	0.80	641,500	75	4	12.3	8.7	3 & 1b ph	235 x 57.5	81 x 55 (Aud-Gym)
Washington, D. C.	Jan.	900	719	11.24	0.835	647,497	80	3	7	10	3 & 1	177 x 56½ b	50 x 34, 50 x 34 58 x 50 (1st)
Miami, Fla.	May	900	345	6.99	0.47	310,936	..	..	..	..	1 & 2	261 x 59	155 x 58, 97 x 58, 161 x 7 54 x 54 (2nd floor)
New York City, N. Y.	Jan.	1309	1332	18.79	1.15	1,841,902	78	10	6	6	3	193 x 202	none
Los Angeles, Calif.	July	2640	193	5.49	0.42	508,637	77.7	4.4	14.8	3.1	..	..	

* also a high school
b basement
ph penthouse
st story
s Based on 30 students in rooms large enough to accommodate 40. At ultimate capacity per student cost goes down to $740.

SCHOOL CONSTRUCTION COSTS — SECONDARY SCHOOLS

Compiled by Engineering News-Record

Location	Date 1949	No. of Students	Cost: Unit Cost Per Student	Cost: Unit Cost Per Sq. Ft.	Cost: Unit Cost Per Cu. Ft.	Cost: Total Contract	Cost Distribution %: Found Supr. Str.	Cost Distribution %: Elec.	Cost Distribution %: Plumb.	Cost Distribution %: Heat	Building Dimensions: Stories	Building Dimensions: Main Bldg.	Building Dimensions: Wings
JUNIOR HIGH													
Baltimore, Md.	May	525	$2044	$18.50	$0.97	$1,088,000	..	..	..	..	..	..	
Temple City, Calif.	Mar.	550	565	9.12	0.69	309,977	..	..	..	..	1	..	
Denver, Colo.	May	560	670	11.54	0.53	375,058	82	4	14		2	..	67 x 83½, 67 x 83½, 64 x 100
Elmhurst, Ill.	Apr.	600	1907	12.13	0.797	1,144,000	78	6.8	5.2	10	1, 2 & 3	221 x 450	62 x 259, 180 x 221
Washington, D. C.	'48 May	1000	1688	10.74	0.686	1,688,000	78.3	4.5	17.2		1 & 4	280 x 65	134 x 65, 100 x 105 (Aud), 98 x 169 1st. (Rec)
Wilmington, Calif.	June	1435	858	10.54	0.684	1,231,673	83.9	3.6	5.8	6.7	1 & 2		
HIGH													
Plains, Texas	Mar.	250	$1020	$9.30	$0.54	$255,000	87	3	4	6	1	61 x 204	26 x 26, 35 x 52, 21 x 33 Gym 104 x 88 (1 & 2 st.)
Canton, Mass.	Mar.	430	1257	11.41	0.94	540,400	73	7	7	13	3 & 2	133 x 61	(3)105 x 66 (2 st.)
Middleton, Wis.	Apr.	475	917	11.30	0.66	435,749	73	4	23		2	55 x 62	102 x 147, 64 x 60, 35 x 51
Norfolk, Va.	May	500	1081	9.75	0.59	540,288	78	7	15		1 & 2	198 x 66	(2)132 x 63, 157 x 85, 90 x 74 (1 st. ea.)
Oak Ridge, Tenn.	June	1500	1660d	13.11d	..	2,490,734d	..	..	..	..	1 & 2	564 x 64	(2)144 x 144 (2) 225 x 204 (1) 213 x 102 (1 st.)
Macon, Ga.	'48 Dec.	1600	249	4.16	..	398,000	80	4	7.5	8.5	1	6 bldgs. connected by covered passageways	
Euclid, Ohio	'47 May '47 Dec.	1800	1801	..	0.85	3,242,922	72	7	5	15	3	622 x 422	
COLLEGE													
Moscow, Idaho Agric. Sci.	June	200	3499	12.59	$0.91	$699,757	74.3	5.9	19.8		1 & 4½	230 x 52 (4½ st.)	67½ x 74 (1 st.)
Manhattan, Kans. Fld. Hse. & Gym	'48 Nov.	1000a	1627	9.98	0.32	1,626,754	89.2	2.4	8.4		1a & 3	319 x 179	195 x 143 (3 st.)
Columbus, Ohio Elec. Engr. Bldg.	'48 May & Later	..		19.37b 15.73c	1.49b 1.21c	755,331 613,348	59b	9b	3b	10b	4	48 x 152	

(a) Manhattan, Kans.—15,000 max. capacity incl. spectators ($108 each for constr. cost). Locker facilities for 3,965 students. 1-story section 80 ft. high.

(c) Columbus, Ohio—excludes elevators and utility tunnel, elevators 55 c./sq. ft., 4.3 c./cu. ft., 3% total cost, utility tunnel $3.09/sq. ft., 23.7 c./cu. ft., 16% total cost.

(d) see opposite page

ph penthouse

SCHOOL CONSTRUCTION COSTS — ELEMENTARY SCHOOLS

Compiled by Engineering News-Record

Location	No. of Rooms: Recit., "home"	Special Instr.	Adm. & Teacher	FACILITIES PROVIDED: Aud.	Gym	Library	Cafeteria	Play rm.	Other	TYPE OF CONSTRUCTION: New	Add'n	Materials
Riverton, Wyo.	4	—	—	—	—	—	x	—		—	x	Brick & concr., reinf. concr.
Cleveland, Ohio	1+k	—	6	(comb)		—	—	—	Soc. Science	—	x	Brick, steel, concrete
Warren, Ohio	6	—	3	—	—	—	x-k	x	(Cafet-Kindgtn comb.)	x	—	Brick, steel, reinf. concr. L-1
Waynesboro, Va.	7	—	3	—	—	x	x	—	—	x	—	Brick and concrete
Woodstock, Ill.	11	3	4	x	—	x	(comb)	(comb		x	—	Brick and steel
S. San Francisco, Calif.	8	—	8	(comb)		x	(comb)		Aud-gym-Cafet-play room combined	x	—	Concr., light steel joists
Longmont, Colo.	12	—	3	—	x	—	—	—	—	—	x	Brick & concr., wood roof
Longmont, Colo.	12	—	3	—	x	—	—	—	—	—	x	Brick & concr., wood roof
McKeesport, Pa.	9	1	2	(comb)		—	x	x	—	x	—	Brick & steel roof is floor for future expansion C-1
Cleveland, Ohio	7+k	—	4	(comb)		—	—	—	Coal burn, steam boilers	x	—	Brick & steel roof is floor for future expansion C-1
Cicero, Ill.	8	2	3	x	—	x	x	—	Power House, Visual Education Room	x	—	Reinf. concr. & str. steel
Troy, Ohio	13	5	3	(comb)		x	x	—	Music & Prac. Arts	x	—	Brick and concrete
Torrance, Calif.	12+k	4	5	(comb)		—	x	—	Shop	x	—	Steel frame, wood & plaster walls, concr. floors, L. 2
Muncie, Ind.	10+2k	—	—	(comb)		—	—	—	—	—	x	Brick, steel, reinf. concr.
Wilbraham, Mass.	12	3	3	(comb)		—	x	—	2 locker & shower rms.	x	—	Cinder bl. Br. fcg, concr. slab on grade, bar jsts & slab roof
Elmira, N. Y.	13	4	17	(comb)		x	—	—	—	x	—	Brick and steel
Neligh, Nebr.	18	—	1	—	—	—	—	—	(Grade & high sch. comb.)	x	—	Brick & concr.
San Carlos, Calif.	15	—	5	—	—	x	—	—	—	—	x	Steel frame, wood studs, siding, plywood
Van Nuys, Calif.	13+2k	—	2	—	—	—	—	—	—	x	—	10 Bldgs. Frame, Stucco concr. fdns. floors
Oak Ridge, Tenn.	15+3k	3	4	(comb)		x	x	—	Medical clinic	x	—	Reinf. concr., & concr. masonry
E. Bridgewater, Mass.	18	1	8	—	—	—	—	—	All purpose room	x	—	Brick and steel
Oak Ridge, Tenn.	18+2k	2	4	(comb)		x	-h	—	Medical clinic, (cafet., home, ec. comb.)	x	—	Concr. masonry, brick veneer
Council Bluffs, Ia.	19	2	3	(comb)		—	x	—	—	x	—	Brick and concrete
Great Neck, L. I.	18	2	2	—	—	—	—	x	(2 prefab. schools)	x	—	Pre-fab frame
Washington, D. C.	21	4	9	(comb)		x	—	(comb,	with lunchroom)	x	—	Brick & reinf. concr.
Washington, D. C.	25	1	6	(comb)		x	—	(comb,	with lunchroom)	x	—	Brick & reinf. concr.
Miami, Fla.	30	—	8	x-c	—	x	x-a	—	(Audit-Cafet. comb.)	x	—	Concr., masonry, slab roof fireproof
New York City, N. Y.	37	—	11	x	x	x		(comb)	—	x	—	Brick and concrete
Los Angeles, Calif.	78	—	—	—	—	—	—	—	—			Emergency portable bldgs. mudsills on earth plywood interior walls, fiberboard ceilings.

A - auditorium
c - cafeteria
h - home economics
k - kindgarten

L - 1 Bi-lateral lighting in 3 classrooms, 2 face No. clear glass; 1 face So. has light directional glass block above view and vent. sash.

L - 2 Controlled Natural and Artificial Lighting. Radiant Heating.

C - 1 Acoust. block ceiling, plastic walls, glazed tile walls. Corridors 5 ft. high, toilets to ceiling.

SCHOOL CONSTRUCTION COSTS — SECONDARY SCHOOLS

Compiled by Engineering News-Record

Location	No. of Rooms: Recit., "home"	Special Instr.	Adm. & Teacher	FACILITIES PROVIDED: Aud.	Gym	Library	Cafeteria	Other	TYPE OF CONSTRUCTION: New	Add'n	Materials
JUNIOR HIGH											
Baltimore, Md.	13	2	3	x	x	..	x	Community use room	..	x dult	Brick & steel
Temple City, Calif.	10†	7	9	..	*	..	..	11 conference rooms	x	..	Frame & stucco
Denver, Colo.	16	2	—	..	x	..	enlarge existing	—	..	x	Brick & steel
Elmhurst, Ill.	20	7	10	x	x	x	x	Indoor bicy. stge, Band Rm., Art., 8 Confer. Rms. Music Rm., Visual Education	x	..	Brick, steel, concr., reinf. concr.
Washington, D. C.	26	19	14	x	x	x	x	Recreation Room	x	..	Brick, steel, reinf. concr.
Wilmington, Calif.	24 †2 to be added later	17	6	*	x	x	x *to be	Social Hall added later	x	..	Reinf. concr. & concr. masonry
HIGH											
Plains, Texas	6	5	6	..	x	x	..	—	x	..	Brick & steel, masonry partitions, concr. deck over OT joists
Canton, Mass.	6 f	7	8	(Comb)		(Comb	(e))	—	x	.. g	Brick & concr.
Middleton, Wis.	10	16	19	(Comb)		..	..	Band Room	..	x dult	Brick, steel, reinf. concr., tile back-up steel joists
Norfolk, Va.	10	16	4	x	x	x	x	—	x	..	Brick, steel, concr.
Oak Ridge, Tenn.	32	31	35	x	x	x	x	(d)	x	..	Steel frame, brick, reinf. concr.
Macon, Ga.	32	6	11	(Comb)		x	x	6 bldgs. incl. shops, science labs., home economics labs.	x	..	Brick & steel, modular constr., radiant heat
Euclid, Ohio	65	15	16	x	x	x	x	Playroom, swimming pool, band and choral rooms	x	..	Brick, steel, concr., reinf. concr.
COLLEGE											
Moscow, Idaho Agric. Sci.	3	28	35	x	..	x	..	Refrigeration rooms	x	..	Reinf. concr.
Manhattan, Kans. Fld. Hse. & Gym.	4	5	24	..	x	..	..	Field House	x	..	Steel rigid frame, stone facing, brick & Haydite backup
Columbus, Ohio Elect. Engr. Bldg.	—	—	—	—	—	—	—	95 rooms & laboratory	x	..	Brick & aluminum

(e) Canton, Mass.—Also used as study hall and home room.

(f) Canton, Mass.—Typing room, office practice room, picture area in laboratory and students activities room, also used as home rooms.

(g) Middleton, Wis.—Contr. incl. remodel interior and new heating for old school size 85 x 57 (3 stories).

(d) Oak Ridge, Tenn.—Band room, chorus room, 22 music practice cubicles, practice stage in cafeteria, medical clinic, 2 exercise rooms. Oversize auditorium, designed to double as municipal auditorium, has parking lot to serve that is not needed by school. Costs exclusive of aud. and lot: $1,450/stud., $11.37/sq. ft., $0.486/cu. ft., $2,173,000 total.

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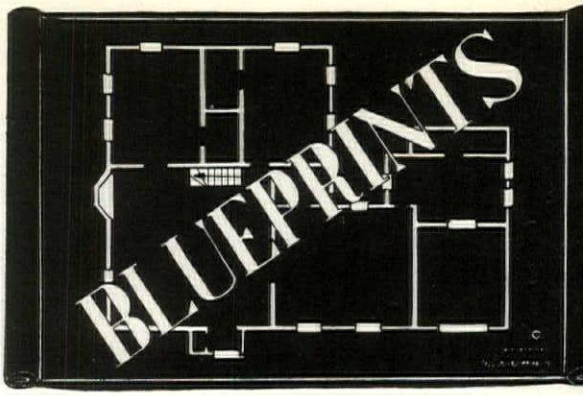

Did anybody wonder how you could get o four 32′ x 22′ classrooms in a two-story buildi 99′ x 58′, as described in last month's co picture story about the Blessed Sacram School in Manchester? Everett Munson, Provost & Wright's office, tells us there actually **eight** classrooms.

At a joint meeting of the Church Archit tural Guild of America and the North Americ Conference on Church Architecture to be h in Columbus, Ohio, January 21-22, the first per is entitled, "What an Architect Does a Why He Should Be Paid for Doing It." T is great! We will try to get reprints for public in N. H. Sometime we should like read a paper on the subject, "Why It Sho Be Necessary to Explain Why Architects Sho Be Paid for Their Work!"

Next meeting of the New Hampshire Ch ter, A. I. A. is Thursday, February 16th. N the date. Time and place to be announ later.

Congratulations to the new firm of BRA & MILES (Horace G. Bradt and Edward Miles) who opened their office in Exeter t month.

WHY OWN A HOME?

The modern housewife's reply to blandi ments of the real estate salesman—"Why b a home?" she protested. "I was born in hospital ward, reared in a boarding school, e cated in a college, courted in an automobile, a married in a church; get my meals at a ca teria, live in an apartment; spend my mornin playing golf, my afternoons playing bridge; the evening we dance or go to the movies; wh I'm sick I go to the hospital, and when I I shall be buried from an undertaker's. All need is a garage with a bedroom."

—Contributed by George R. Thom

s by Durette Studio show exterior and interior of new Gift Shop

Candle-Lite Gift Shop" esigned to permit free vision from sidewalk.

This scheme follows the trend in design which aims at "openness" to permit free vision of the gift shop interior from the sidewalk. The plate glass window is set back at an angle from the building line, and there is no other barrier between the exterior and interior. Passersby on the sidewalk may view the activities in side as well as the large display of gifts and greeting cards. The entrance door is also transparent, consisting of a panel of Herculite Tempered Plate Glass.

The built-incase along the left of the front provides space for display of special items without interfering with inspection of the interior from the sidewalk. The display case contains adjustable glass shelves and is lighted by fluorescent tubes concealed by frosted glass panels at both sides.

White carrara glass frames the entire front and returns on both sides are of black carrara glass. Stainless steel letters with neon tubing inserted in the channels add a dash of color against the white front of carrara glass.

Inside the gift shop, all cases were designed of mahogany plywood veneers, featuring scalloped edges and indirect lighting behind frosted glass framing. Around the entire perimeter of the interior walls cove lighting supplies indirect illumination. The floor is covered with a beige rug in mild patterns of black and red squares. John D. Betley, Manchester, Architect.

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Fees for Public Housing Projects

We are informed that architects negotiat with local housing authorities for architect services on public housing projects under Pu Law 171, 81st Congress, are under the be that a schedule of fees for architect services, apparently issuing from the Pu Housing Administration in Washington, D. has received the approval of The American stitute of Architects.

The A. I. A. has never yet approved schedule of fees evolved by governme agencies for public housing projects. If schedule being furnished to architects is w the A. I. A. believes it to be ,it would prob not receive A. I. A. approval. It is not

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mary for The A. I. A. to approve schedules fees developed by others than itself or its mponent organizations.

Architects negotiating fees with local housing thorities should be guided by their own judgent. Architects in so doing will bear in mind e best interests of the public and of the ofession.

The P. H. A. proposes to use the schedule entioned above for initial projects in the blic housing program, and further states that reconsideration of the schedule might be conded, subject to the determination of satisctory or unsatisfactory operation based on an vestigation of professional services on the itial projects. Any upward revision of the hedule would have to depend upon well subantiated factual data emanating from the chitects' offices relative to the cost of proction of services.

WILLIAM E. O'NEIL

William E. O'Neil, 62, Nashua architect, died suddenly at his home, 32 Dunstable Road, Nashua, recently. Death was reported due to a heart attack.

He was a native of Chelmsford, Mass., but has resided in Nashua for more than 25 years during which time he designed many homes and other buildings.

Mr. O'Neil was a former member of the New Hampshire Society of Architects, Nashua Rotary club, Nashua Country club and the Knights of Columbus. He was a communicant of St. Patrick church.

Survivors are his wife and a daughter, Mrs. Howard Leonardi.

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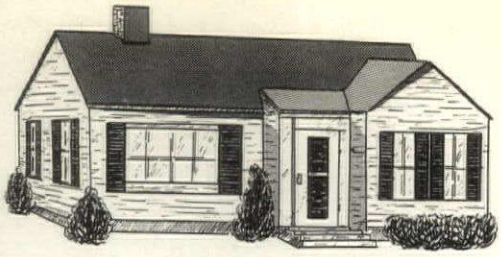

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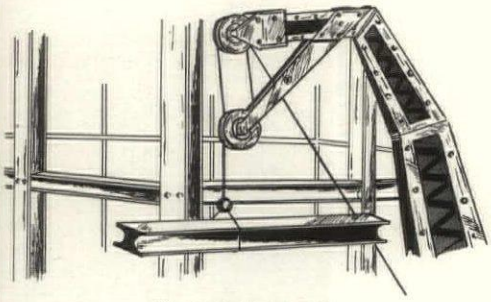

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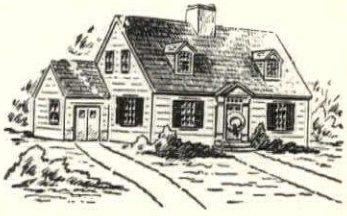

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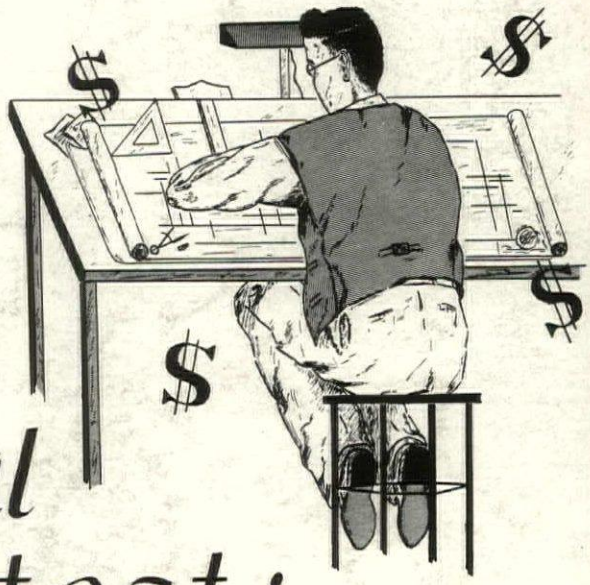

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